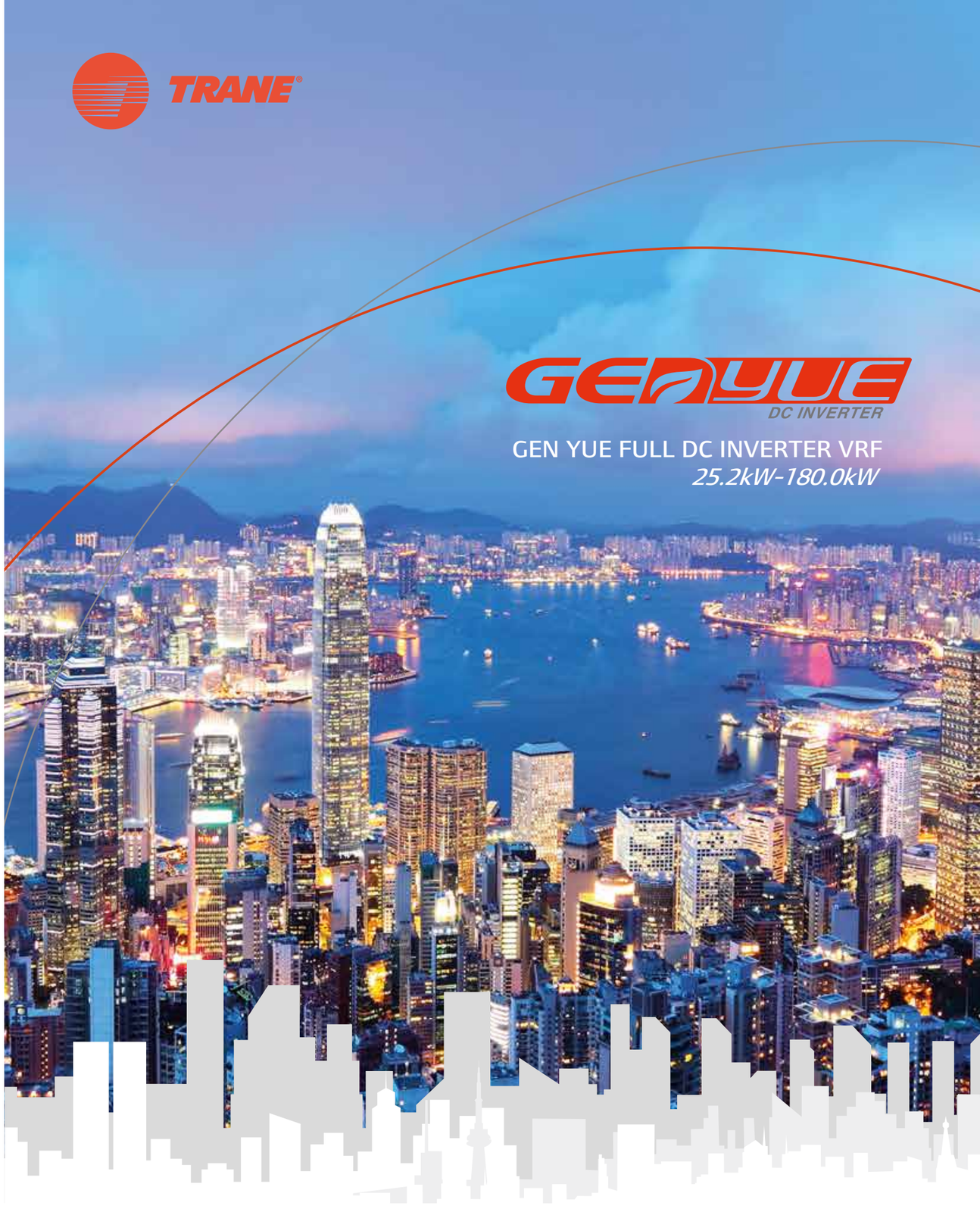

Ingersoll Rand

September 2015

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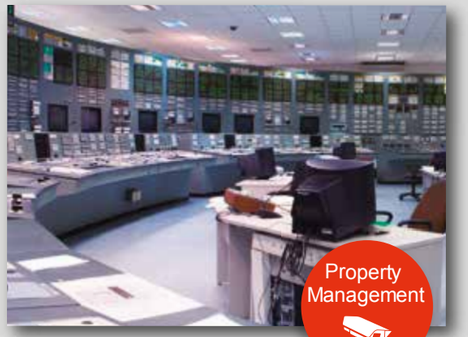
GEN YUE
DC INVERTER

With its performance, innovation, commitment and knowledge, Trane has been leading the industrial trend since last century. TRANE GEN YUE is committed to improving the environment in our customers' buildings, thinking and doing more than they have expected. From the very beginning, we have been trying to bring the highest efficiency, lowest emission, mature technology and perfect reliability to our customers.



Pleasing - Pleasing the eye and soul

IPLV 6.9

Higher efficiency

Transcending - Transcending the ordinary and conventional

Inverter Compressor

More comfortable and advanced compressor technology

9 Types of Indoor Units & 62 Different Specifications Available

More flexible and extensive indoor unit line-up

Contents

03 Superior Efficiency

05 High Reliability

07 Absolute Comfort

09 Convenient Operation

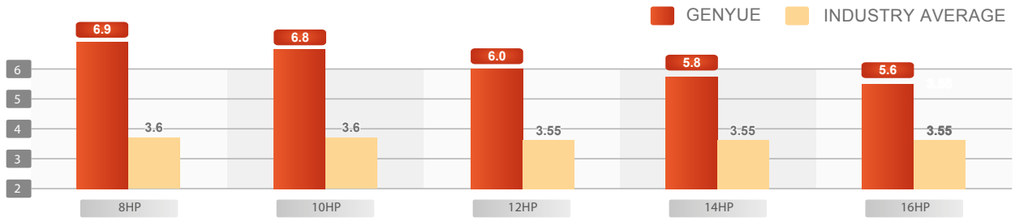
13 Outdoor Unit Line-Up

17 Indoor Unit Line-Up

30 Green Taicang Plant

Superior Efficiency

The IPLV(C) of the whole GENYUE series is greatly improved up to 6.90, and the average is up to 6.22



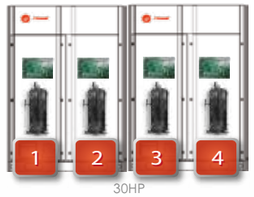
IPLV (Integrated Part Load Value) is calculated on the basis of the operating efficiency of the air conditioning unit under four different conditions.
It not only reflects the multi-split system's operating efficiency under part-load conditions, but also brings about a unified test method, thus being able to demonstrate the multi-split system's energy saving property in a more reasonable manner.

All Inverter Compressor System Greatly Boosts Performance

Secrets Of The More Comfortable All Variable Speed System

The GEN YUE series performance is substantially upgraded, and the inverter compressor effectively improves the system's self-adaptive adjusting capacity, enabling the system to reach the optimal operating state point of dynamic equilibrium and flexibly adjusting output in line with load changes. For example, the 30HP system has two compressors for each module, so in total there are four inverter compressors.

On-demand Output Ensures High Efficiency And Energy Saving



All variable speed system : The inverter compressors are simultaneously activated according to actual air conditioning needs, and they can fully meet the actual needs and enable on-demand output due to its adjustable capacity.
Non-variable speed system : As the output cannot be controlled, it is usually more than the demand at first, and then slowly approaches to the actual need, which inevitably causes energy waste.

Precise Temperature Control, Stable And Comfortable

- After the target room temperature is set, the air conditioner activates to make the room temperature reach the set value. A non-variable speed air conditioning system will stop operation immediately after reaching the set temperature, and will start again when the temperature deviates from the target to a certain extent, which will inevitably produce evident room temperature change and thus compromise perceived comfort level.
- When the room temperature reaches the set value, an inverter air conditioning system will adjust output by changing the speed of the compressors, so the system will keep running to avoid temperature fluctuation in the room, thus ensuring a higher comfort level.

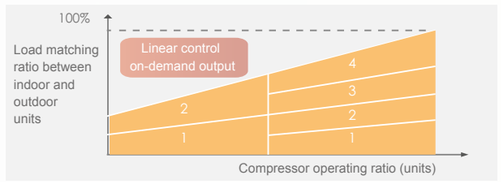


Fig. a GEN YUE all variable speed system capacity

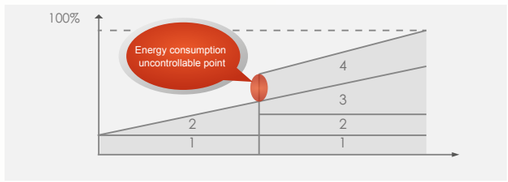


Fig. b Non-variable speed system capacity

DC Brushless Fan Motor With Low Noise And High Efficiency

Compact Structure, More Efficient Under Low Load Operation

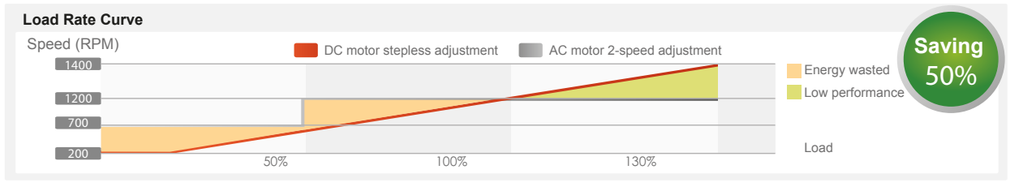
The outdoor unit features brushless DC motor and compact structure, which can optimize the operating state of the unit under different conditions and greatly improve the operating efficiency at low load.

Achieve Stepless Control

Compressor speed is adjusted according to the load change steplessly and with precision. Energy-saving effect is significantly more pronounced.

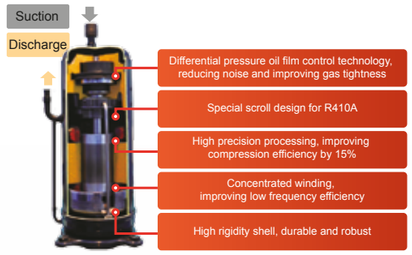
DC Brushless Fan Motor

AC Fan Motor



New High-Pressure Chamber Scroll Compressor Features Durability, Stability And High Efficiency

The scroll compressor fabricated with high precision features a high-strength aspindle and a high-rigidity shell, which ensure superior reliability.

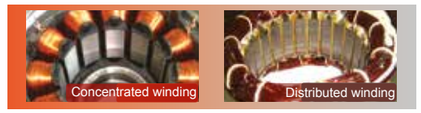

Suction
Discharge
Differential pressure oil film control technology, reducing noise and improving gas tightness
Special scroll design for R410A
High precision processing, improving compression efficiency by 15%
Concentrated winding, improving low frequency efficiency
High rigidity shell, durable and robust

Neodymium Permanent Magnet Rotor

Compared to ordinary magnets, the neodymium magnet has more powerful magnetic force, larger magnetic torque and higher efficiency.

Concentrated Winding

Magnetic efficiency is **12%** higher than distributed winding



Advanced DC Inverter Technology

Thanks to the advanced DC inverter technology, the output current is smooth 180° sine wave curve, making the compressor run more smoothly, more quietly, and more efficiently. At the same time, harmonic current and electromagnetic noise is effectively controlled, with thenational EMC electromagnetic interference test passed.
Cooling variable frequency drive through fresh air cooling mode leads to no additional loss of refrigerant, improving the system efficiency, making the control system more stable and reliable, and ensuring that the system runs more efficiently and precisely.

180° Sine Wave

The force moment of the compressor driven by electric current presents a smooth curve

Low Energy Consumption

The force moment of the compressor driven by sine wave control current presents a smooth curve and the energy consumption is low

Low Noise

The force moment of the compressor driven by sine wave control current presents a smooth curve and the compressor noise is greatly reduced

Multiple Electronic Expansion Valves, Precise Temperature Control

The indoor and outdoor unit features a design of multiple electronic expansion valves that are connected parallelly in the system. The refrigerant flow is adjusted simultaneously according to the actual load requirement to achieve real on-demand adjustment and output. The result of precise temperature control is a comfortable indoor air environment. Indoor unit adopts mute type electronic expansion valve control.

High Reliability

Multiple Protection Function For More Stable System Operation

Protection 1: Real-time monitoring and automatic adjustment of operating status.

The important operating parameters of the compressor including discharge temperature, high and low pressure and running current would be monitored real-time by the control system, it will automatically adjust or initiate protective measures to ensure the system is safe and effective to operate.

Protection 2: Perform emergency back-up operation when fault occurs.

When a single module compressor failure occurs or one module in one system requires maintenance, the system can continue stand-alone operations to guarantee uninterrupted indoor air conditioning effect, till the failure is rectified or maintenance is completed.

Protection 3: Balance compressor operation time to improve system stability.

The outdoor unit always gives priority to start the module with least total running time to balance running hours of different modules and ensure reliability of the whole system.

Easy Installation Of Outdoor Units

Choose from 4 directions: left, right, front or under, to connect refrigerant pipes according to actual conditions, for flexible and convenient design and installation of outdoor unit.

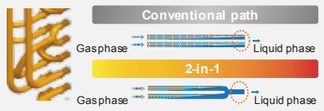
Static Pressure Of Outdoor Units Upto 81.8pa

Thanks to the DC fan motor, external static pressure of the outdoor fan is adjustable up to maximum 81.8Pa, therefore the air flow won't be affected by the blinds or orifice plates in front of the outdoor unit.

Highly Efficient Heat Exchange Design For Outstanding Performance

2-in-1 Pipeline Design For Better Efficiency

Liquid refrigerant volume proportion in the condenser outlet is highly increased, allowing the indoor unit to produce more heat (or cool air).



Inner-Grooved Copper Tube For Better Efficiency

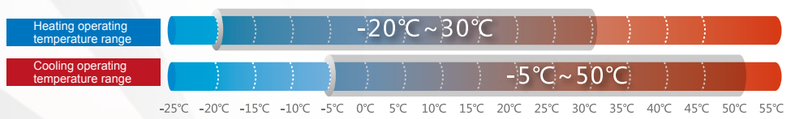
Adoption of inner-cross-grooved copper tube significantly increases the convective heat transfer coefficient allowing sufficient heat exchange and improving heat exchanging efficiency.

High-Efficiency Fins For Better Efficiency

Cross-flow decompression fins have a larger heat exchanging area and lower air resistance than conventional fins, which greatly enhances heat exchanging efficiency, improves the frosting issue and make the whole system run more efficiently.

Wide Operating Range, Applicable For Different Regions With Different Climates In The Whole Country

Heating operating temperature range: -20 ~ 30 ℃ (outdoor); cooling operating temperature range: -5 ~ 50℃ (outdoor)


Heating operating temperature range
-20℃~30℃
Cooling operating temperature range
-5℃~50℃
-25℃ -20℃ -15℃ -10℃ -5℃ 0℃ 5℃ 10℃ 15℃ 20℃ 25℃ 30℃ 35℃ 40℃ 45℃ 50℃ 55℃

Compact Design And Light Weight

Dual Electronic Expansion Valve Design - Refrigerant Flow Control Is More Accurate And Reliable

- The outdoor unit is equipped with a 960 step dual electronic expansion valve, making the refrigerant flow adjustment to be even more precise.
- The liquid side is controlled by a solenoid valve bypass design to control compressor superheat and provide effective protection of the compressor, to maximize its efficiency, as well as ensure safe and reliable operation.

3-level Oil Return, 5-step Oil Control

With smart oil level control technique, when the oil level of one compressor is too high, the excess lubricating oil can be collected into an oil separator through the oil even pipe to equalize oil level of each compressor.

For a multi-module combination system, an intelligent oil return program is adopted to ensure balance of oil levels between different modules to ensure the normal operation of the system.

- GEN YUE has an intelligent oil return program and is equipped with an oil even pipe between each module in the system.
- The system can initiate the oil return program according to the real-time operating status, so as to balance oil levels between different modules, avoiding compressor fault or damage caused by shortage of oil.

Oil even pipe

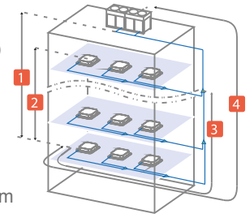
Oil even pipe between modules

Intelligent oil return program

Oil even pipe between modules

Extra Long Pipes For Flexible System Design

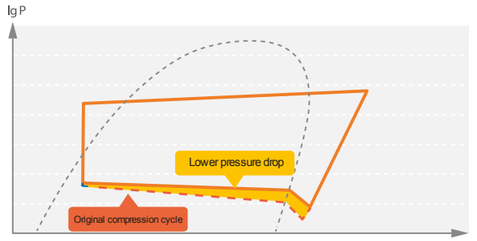
1. Height difference between an outdoor and indoor unit is up to 70m (with the outdoor unit below)
2. Height difference between indoor units is 15m
3. The maximum distance from the first indoor distributor to the last indoor unit is 65m
4. The longest pipe length between an outdoor and indoor unit is 200m

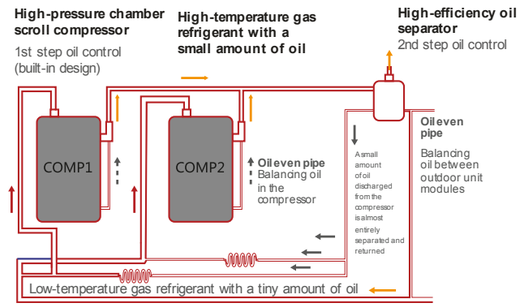


Note:
When the outdoor unit is below indoor units, the maximum vertical length from an indoor unit to the outdoor unit is 70m.When the outdoor unit is above indoor units, the maximum vertical length from an indoor unit to the outdoor unit is 50m.

New Refrigerant Pipeline Design Greatly Improves Heat Exchange Efficiency

New refrigerant pipeline design optimization helps reduce the piping pressure drop by 5%. Rise in evaporation temperature can further enhance cooling and heating efficiency.




High-pressure chamber scroll compressor
1st step oil control (built-in design)
High-temperature gas refrigerant with a small amount of oil
High-efficiency oil separator
2nd step oil control
COMP1
COMP2
Oil even pipe
Balancing oil in the compressor
A small amount of oil discharged from the compressor is almost entirely separated and returned
Oil even pipe
Balancing oil between outdoor unit modules
Low-temperature gas refrigerant with a tiny amount of oil

Oil separator

Separating efficiency up to 92%

Oil level control

Compressor oil even pipe

Absolute Comfort

GENYUE DC INVERTER

Intelligent Defrosting, Effectively Extending Heating Time

- The intelligent defrosting program determines whether to defrost on the basis of a collection of factors, including the environmental temperature, evaporation pressure, temperature changing rate and heating operating time.
- Effectively extends the running time of heating and avoids frequent and ineffective defrosting.

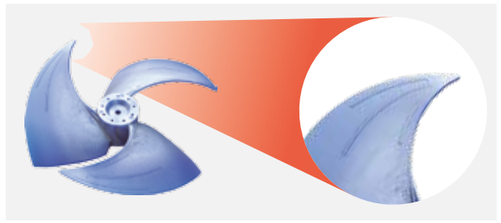
Quiet Technology For Comfort And Low Noise

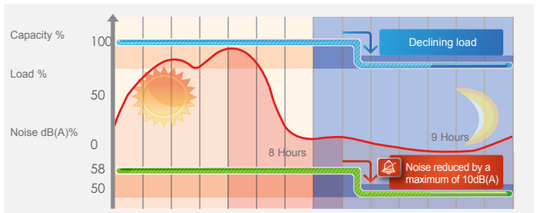
Forward-swept Anti-vibration Axial Fan

Strengthened blade tips and thickness optimization of parts of blade front, reduced vibration and eddies formation. Especially, high-speed operation is rather stable, significantly reducing noise.

Human-friendly Silent Mode For Night Time

Particularly suitable for villas and high-end apartments, this technology automatically achieves reduction of the fan and compressor speeds by a maximum of 10 dB(A). It allows users to achieve maximum comfort and avoid disturbing neighbors.





Room Card For Electricity

Hotels are equipped with room card for electricity. In order to prevent air conditioning system malfunction caused by power outage of indoor units, we specially set up REMO_CTRL terminals to cooperate with room card for electricity switch through simple wiring, thus can prohibit indoor machine running without cutting off indoor unit power supply. That way it's perfectly blended in hotel management system to achieve high efficiency and energy saving.

Insert room card for electricity to allow indoor unit operation

Reliable Control, Reliable Performance

Smart Snow Protection Control

The smart automatic snow protection function helps to lower the starting risk and ensure the system run stably and efficiently.

Smart Refrigerant Recover Control

The smart refrigerant recover control function can effectively cut down service cost and raise service efficiency, helping rid of faults quickly.

Multiple Kinds Of Outdoor Unit Operating Modes

Operating modes including cooling priority, heating priority, first starting prority, cooling only, heating only etc. fully cater to various kinds of special operation requirements.

Multi-level Protection Technologies

High and low pressure sensors synchronous control, compressor discharge superheat degree control, high temperature protection, inverter over-current protection, etc. not only enhance the system's reliability, but also ensure comfort.

Power Off Memory Function

When unexpected power outage occurs, the system will automatically store user information. When power restores, it will automatically restart and operate in accordance with the settings before power outage with no need for resetting, thus bringing more intelligent services.

Automatic Address Searching Function

Outdoor units automatically assign indoor units addresses, which greatly simplifies the installation program. Users can do address query and setting to indoor units through the wired controller, making it easy for the setup of intelligent control system.

Intelligent Diagnosis Function

Users can easily obtain system operating status information through the wired controller or the LED display on the outdoor unit, and they can display fault immediately when failure occurs, which greatly simplifies operation management and reduces the maintenance time.

Code Dialing Setting Function

Based on their habits and actual demand, users can select operation mode through different code dialing combinations, make air conditioning system management easier.

Environment Protection, Green Life

Fully Conforming To RoHS Directives

RoHS is a set of mandatory standards passed by the EU legislative body, titled "Restriction of Hazardous Substances Directive". It aims to eliminate lead, mercury, cadmium, hexavalent chromium, PBB and PBDE , total 6 kinds of substances, from electrical and electronic equipment. It regulates material use, technique standards, recycling and recovery of electrical and electronic products, for the good of human health and environmental protection.

R410a Environment-friendly Refrigerant

The new refrigerant R410A is made up of hydrogen, fluorine and carbon, boasting numerous advantages including high stability, toxin free and excellent performance, etc. With a high cooling (heating) efficiency, it greatly boosts the system's air conditioning performance.

Indicator	Value
Ozone depletion potential (ODP)	0
Combustibility in air	0
Chemical and heat stability	High

Convenient Operation

Individual Control For Indoor Units (Standard/Optional)

- Each indoor unit can be separately controlled.
- 2 types of controllers, wireless and wired, cater to different requirements from customers.

Wireless controller

- Operating modes setting
- Temperature adjustment
- Air speed, air volume adjustment
- Timer setting
- On/off timer setting
- Louver position setting
- Indoor unit address setting and inquiring

Wired controller

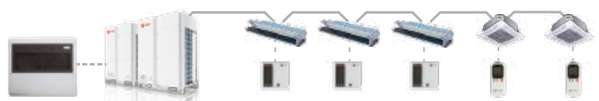
- User-friendly LCD screen and background lighting design
- Operating modes setting
- Temperature adjustment
- Air speed, air volume adjustment
- Timer setting
- On/off timer setting
- Failure code display
- Indoor unit address setting and inquiring

MC-20 Centralized System Control (Optional)

Central controllers are used to perform centralized control and data inquiring on air conditioning systems. Each controller can connect up to 64 indoor units, and all these indoor units may belong to the same system, or multiple systems.The connection is of a wired manner (RS485), via which a centralized control of air conditioning units in the whole system is achieved.

Central controllers can be selected by customers on demand. One central controller can control up to 64 indoor units, and perform different kinds of central or individual control on all the connected indoor units.

- Air conditioner status inquiry
- Failure code display
- Unified control interface
- Central or individual adjustment of temperature, air speed and operation mode
- System operation mode lock-up



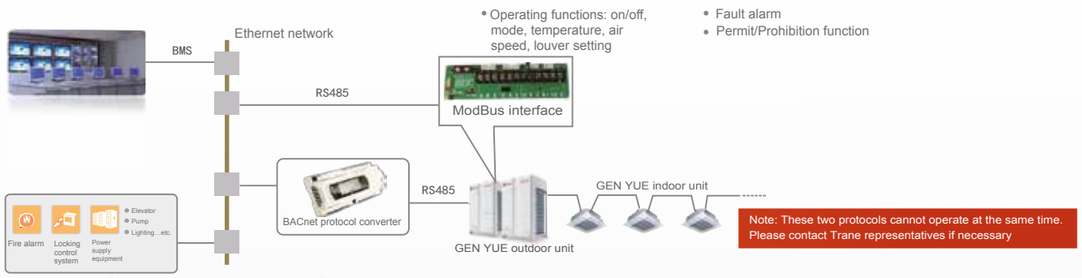
Open Protocol System

ModBus Protocol (Standard)

Outdoor unit is equipped with ModBus/RTU protocol output as standard, requiring no need of conversion equipment which is convenient for connection to a third party operating system (such as smart home).

BACnet Protocol Converters (Optional)

Can connect upto six sets of outdoor units,128 sets of indoor units
BMS (Building Automation System) supports BACnet IP&MS/TP, and interlocks air conditioning and the third party equipment operation through indoor and outdoor unit connection.



Gen - Net Air Conditioning Management System

With an intelligent management system built in, the management system host is the core of the air conditioning centralized management system, featuring functions such as equipment management, energy management, schedule management, external access management, etc. Based on application sites and needs, the hosts are divided into touch-screen version and modular version; if the capacity of units connected is considered, a common version and expanded version are provided. Through the operation interface coming with the touch-screen management system host, users can perform all management functions of the whole air conditioning system on the touch screen without the need of adding computers, thus saving costs.

Unit quantity	Touch-screen expanded version TCMT560	Touch-screen common version TCMT180	Modular expanded version TCMN560	Modular common version TCMN180
Outdoor unit (system)	32	3	32	3
Indoor unit	560	180	560	180

TCMT560AC01C

Can connect up to 560 indoor units and 32 outdoor units, the touch-screen LCD system manager brings you superbly convenient and fast control experience.

- 15 inch large touch screen control
- Energy management
- Daily settings such as temperature control, etc.
- Remote control
- Multi-language setting
- Individual and central control
- Week/Month/Day schedule setting
- Household billing
- Authority management
- Operation record display
- Interlocking control of fire alarm, door lock
- Failure alarm

Touch - Screen Management System Host

A variety of operating mode is available for the touch screen manager. It can be installed on the wall on the work station in the operation control room.

Operating mode:

1. Touch screen operation is simple and convenient.
2. Touch screen devices has USB interfaces which can be connected directly to the keyboard and mouse to operate.

Software available in English

Convenient Operation

GEN YUE DC INVERTER

Able To Meet Demand Of Different Project Scales

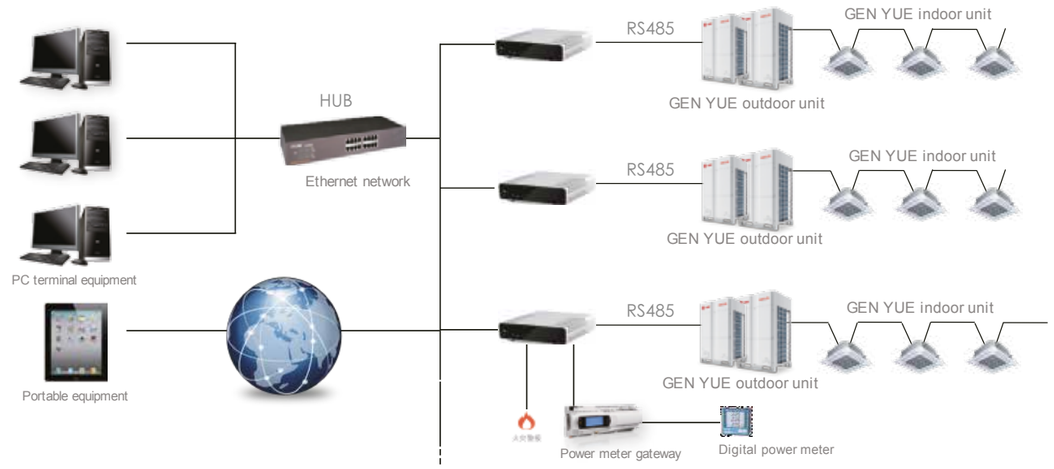
Touch Control Operation System

Touch screen operation system is suitable for small and medium-sized occasions. Centralized control can be realized via a control device with simple wiring.

- 15 inch large touch-screen control
- Energy management
- Daily settings such as temperature control, etc.
- Remote control
- Multi-language setting
- Individual and central control
- Week/Month/Day schedule setting
- Household billing
- Authority management
- Operation record display
- Interlocking control of fire alarm, door lock
- Failure alarm

Modular Control Operating System (Advance Announcement)

Modular operating system is applicable to large buildings or commercial buildings. One or more control equipment can be combined with simple wiring to achieve the overall control of large air conditioning system.



Major functions:

- Real-time monitoring on air conditioning systems
- Remotely operating and managing air conditioning systems
- Interlocking control of fire alarm, door lock and other external signals
- User's on-site controller lock-up function
- Multi-level authority assignment for management staff
- Schedule setting and operation management
- Household billing and energy management
- Operation log, history data and trend inquiry
- Report generation and printing

VRFAir Conditioning System Operation Optimization And Management Efficiency, Reduces Energy Consumption Of Buildings As A Whole

Scheduled On/Off

- On - Pre-scheduled operation brings comfortable temperature from the beginning of a day
- Off - Avoid waste of electricity when staff forget to turn off the air conditioning

Classify According To The Tenant, Floor And Building

- It's time consuming to find a specific unit in hundreds of indoor units. Various kinds of classification help improve the efficiency of the query.

Emergency Stop Control (Fire Alarm)

- All indoor units automatically stop when fire alarm occurs in the building.

Prohibit Indoor Unit Operation

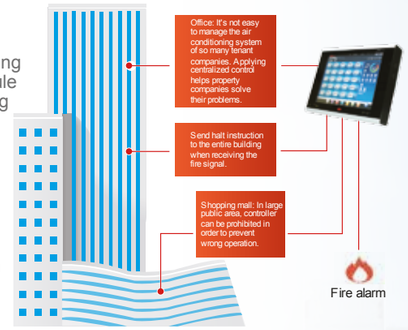
- More frequency change indoor unit set will cause energy loss or impact other indoor unit operating system
- Can ban specific remote control operation unit at public areas (lobby/corridor/elevator hall)

Schedule Management

- In order to facilitate effective control of air-conditioning equipment, GEN - NET system provides the schedule management function.Users can schedule according to the demand, to the days, weeks, months, years, or any special date to realize 24 hours control of air-conditioning equipment, avoid air conditioning long time running because of personal reasons.

Permission Setting

- GEN-NET system supports multiple users logging in locally or remotely. The system administrator can set system login user name, password and access to directly manage users.


Office: It's not easy to manage the air conditioning system of so many tenant companies. Applying centralized control helps property companies solve their problems.
Send halt instruction to the entire building when receiving the fire signal.
Shopping mall: In large public area, controller can be prohibited in order to prevent wrong operation.
Fire alarm

Account establishment　Authority limiting　User login

Tendency Analysis

- GEN-NET intelligent control system can provide any air conditioner equipment operating data in the analysis system, and map it with curves so that users can get a more intuitive analysis of equipment running status.

Air Conditioning Electricity Charge System

Trane's household air conditioning billing system is composed of a household bill calculation system and an air conditioning management system. The former collects a series of operation parameters including indoor and outdoor units' capacities, operating time, operating mode and electronic expansion valve opening, etc., then processes the data collected using a built-in algorithm and allocates the outdoor unit's power consumption to each indoor unit in a reasonable manner.

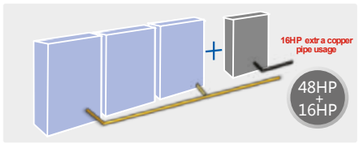
GEN-NET system provides time-division or fixed electricity charge for users to choose from. It can set electricity charge per hour separately and automatically generate electricity bill, improving management efficiency.

Extensive Outdoor Unit Line-Up

GEN YUE DC INVERTER

Maximum Of 4 Module Combination, Single System Up To 64HP

The GEN YUE series boasts an extensive product line-up. 29 models of outdoor units range from 8 to 64HP, with each one's capacity increasing progressively by 2HP. With outstanding flexibility, the system well caters to air conditioning needs from different kinds of applications. Configuration based on need can effectively reduce design and installation cost.



8HP ~ 16HP

18HP ~ 32HP

34HP ~ 48HP

50HP ~ 64HP

Outdoor Unit Line-up-Model And Module Combination

Capacity HP	Model	Module combination				
		8	10	12	14	16
8	TMR080ADB	●				
10	TMR100ADB		●			
12	TMR120ADB			●		
14	TMR140ADB				●	
16	TMR160ADB					●
18	TMR180ADB	●	●			
20	TMR200ADB		● ●			
22	TMR220ADB		●	●		
24	TMR240ADB		●		●	
26	TMR260ADB		●			●
28	TMR280ADB			●		●
30	TMR300ADB				●	●
32	TMR320ADB					● ●
34	TMR340ADB		● ●		●	
36	TMR360ADB		● ●			●
38	TMR380ADB		●	●		●
40	TMR400ADB		●		●	●
42	TMR420ADB		●			● ●
44	TMR440ADB			●		● ●
46	TMR460ADB				●	● ●
48	TMR480ADB					● ● ●
50	TMR500ADB	●	●			● ●
52	TMR520ADB		● ●			● ●
54	TMR540ADB		●	●		● ●
56	TMR560ADB		●		●	● ●
58	TMR580ADB		●			● ● ●
60	TMR600ADB			●		● ● ●
62	TMR620ADB				●	● ● ●
64	TMR640ADB					● ● ● ●

Note: The above are the best combinations recommended.

Model			TMR080 ADB	TMR100 ADB	TMR120 ADB	TMR140 ADB	TMR160 ADB
Capacity		HP	8	10	12	14	16
Power supply			380V~50HZ~3Ph				
Cooling capacity		kW	25.2	28.0	33.5	40.0	45.0
Heating capacity		kW	27.4	31.5	37.5	45.0	50.0
Input power	Cooling	kW	6.6	7.6	9.5	11.7	14.0
	Heating	kW	6.5	7.5	9.3	11.8	13.8
COP			4.22	4.20	4.03	3.81	3.62
IPLV(C)			6.9	6.8	6.0	5.8	5.6
Max. no. of connectable indoor units			12	14	16	20	22
Dimensions	H x W x D	mm	1620x970x796		1620x1260x796		
Weight		kg	208		245	286	
Fan	Air flow	m^3/h	12,000		15,000		
	Max. static pressure	Pa	81.8				
Operation noise		dB(A)	59	61	63		
Operation range	Cooling		-5°C ~ 50°C				
	Heating		-20°C ~ 30°C				
Refrigerant	Type		R410A				
	Charging amount	kg	10		12	16	
Refrigerant oil	Type		FV-68H				
Connecting pipe	Liquid	mm	Ø12.7(flare connection)			Ø15.9(flare connection)	
	Gas	mm	Ø22.2(Braze connection)	Ø25.4(Braze connection)	Ø28.6(Braze connection)		

Model (combination unit)			TMR180ADB	TMR200ADB	TMR220ADB	TMR240ADB	TMR260ADB	TMR280ADB	TMR300ADB	TMR320ADB
Combination method			80+100	100+100	100+120	100+140	100+160	120+160	140+160	160+160
Capacity		HP	18	20	22	24	26	28	30	32
Power supply			380V~50HZ~3Ph							
Cooling capacity		kW	53.2	56.0	61.5	68.0	73.0	78.5	85.0	90.0
Heating capacity		kW	58.9	63.0	69.0	76.5	81.5	87.5	95.0	100.0
Input power	Cooling	kW	14.2	15.2	17.1	19.3	21.6	23.5	25.7	28.0
	Heating	kW	14.0	15.0	16.8	19.3	21.3	23.1	25.6	27.6
COP			4.21	4.20	4.11	3.96	3.83	3.79	3.71	3.62
Max. no. of connectable indoor units			26	28	30	34	36	39	42	45
Dimensions	H x W x D	mm	1620x(970+970)x796		1620x(970+1260)x796			1620x(1260+1260)x796		
Weight		kg	208+208		208+245	208+286		245+286	286+286	
Fan		m^3/h	12,000x2			12,000+15,000			15,000x2	
		Pa	81.8							
Operation noise		dB(A)	64		65			67		
Operation range	Cooling		-5°C ~ 50°C							
	Heating		-20°C ~ 30°C							
Refrigerant	Type		R410A							
	Charging amount	kg	10+10		10+12	10+16		12+16	16+16	
Refrigerant oil	Type		FV-68H							
Connecting pipe	Liquid	mm	Ø15.9(Flare connection)				Ø19.1(Braze connection)			
	Gas	mm	Ø31.8(Braze connection)			Ø34.9(Braze connection)				

1. Design of the units conforms to GB/T 18837-2002 standards.
2. Cooling conditions: indoor temperature—27°CDB, 19°CWB, outdoor temperature—35°CDB; heating conditions: indoor temperature—20°CDB, 15°CWB, outdoor temperature—7°CDB, 6°CWB.

Extensive Outdoor Unit Line-Up

GEN YUE DC INVERTER

Model (combination unit)			TMR340ADB	TMR360ADB	TMR380ADB	TMR400ADB
Combination method			100+100+140	100+100+160	100+120+160	100+140+160
Capacity		HP	34	36	38	40
Power supply			380V ~ 50HZ ~ 3Ph			
Cooling capacity		kW	96.0	101.0	106.5	113.0
Heating capacity		kW	108.0	113.0	119.0	126.5
Input power	Cooling	kW	26.9	29.2	31.1	33.3
	Heating	kW	26.8	28.8	30.6	33.1
COP			4.03	3.92	3.89	3.82
Max. no. of connectable indoor units			48	50	52	54
Dimensions	H x W x D	mm	1620x(970+970+1260)x796		1620x(970+1260+1260)x796	
Weight		kg	208+208+286		208+245+286	208+286+286
Fan		m³/h	12,000x2+15,000			12,000+15,000x2
		Max Static Pressure	81.8			
Operation noise		dB(A)	67			
Operation range	Cooling		-5°C ~ 50°C			
	Heating		-20°C ~ 30°C			
Refrigerant	Type		R410A			
	Charging amount	kg	10+10+16		10+12+16	10+16+16
Refrigerant oil	Type		FV-68H			
Connecting pipe	Liquid	mm	Ø19.1(Braze connection)			
	Gas	mm	Ø41.3(Braze connection)			

Model (combination unit)			TMR420ADB	TMR440ADB	TMR460ADB	TMR480ADB
Combination method			100+160+160	120+160+160	140+160+160	160+160+160
Capacity		HP	42	44	46	48
Power supply			380V ~ 50HZ ~ 3Ph			
Cooling capacity		kW	118.0	123.5	130.0	135.0
Heating capacity		kW	131.5	137.5	145.0	150.0
Input power	Cooling	kW	35.6	37.5	39.7	42.0
	Heating	kW	35.1	36.9	39.4	41.4
COP			3.75	3.73	3.68	3.62
Max. no. of connectable indoor units			58	60		
Dimensions	H x W x D	mm	1620x(970+1260+1260)x796	1620x(1260+970+1260)x796		
Weight		kg	208+286+286	245+286+286	286+286+286	
Fan		m³/h	12,000+15,000x2		15,000x3	
		Max Static Pressure	81.8			
Operation noise		dB(A)	67	68		
Operation range	Cooling		-5°C ~ 50°C			
	Heating		-20°C ~ 30°C			
Refrigerant	Type		R410A			
	Charging amount	kg	10+16+16	12+16+16	16+16+16	
Refrigerant Oil	Type		FV-68H			
Connecting pipe	Liquid	mm	Ø19.1(Brazing connection)			
	Gas	mm	Ø41.3(Brazing connection)			

1. Design of the units conforms to GB/T 18837-2002 standards.
2. Cooling conditions: indoor temperature—27°CDB, 19°CWB, outdoor temperature—35°CDB; heating conditions: indoor temperature-20°CDB, 15°CWB, outdoor temperature-7°CDB, 6°CWB.
3. The operation noise herein is the value measured in a semi-anechoic room.
4. When pipe length exceeds 90m, the pipe diameter may change, so please strictly refer to pipe diameter illustrations in the GEN YUE technical manual.
5. For engineering design, due to the difference of operating environments, please refer to the related chapters in the user's manual attached with the unit for electrical specifications.

Model (combination unit)			TMR500ADB	TMR520ADB	TMR540ADB	TMR560ADB
Combination method			80+100+160+160	100+100+160+160	100+120+160+160	100+140+160+160
Capacity		HP	50	52	54	56
Power supply			380V ~ 50HZ ~ 3Ph			
Cooling capacity		kW	143.2	146.0	151.5	158.0
Heating capacity		kW	158.9	163.0	169.0	176.5
Input power	Cooling	kW	42.2	43.2	45.1	47.3
	Heating	kW	41.6	42.6	44.4	46.9
COP			3.82	3.83	3.81	3.76
Max. no. of connectable indoor units			60			
Dimensions	H x W x D	mm	1620x(970+970+1260+1260)x796		1620x(970+1260+1260+1260)x796	
Weight		kg	208+208+286+286		208+245+286+286	208+286+286+286
Fan		m³/h	12,000x2+15000x2		12,000+15,000x3	
		Max Static Pressure	81.8			
Operation noise		dB(A)	69			
Operation range	Cooling		-5°C ~ 50°C			
	Heating		-20°C ~ 30°C			
Refrigerant	Type		R410A			
	Charging amount	kg	10+10+16+16		10+12+16+16	10+16+16+16
Refrigerant oil	Type		FV-68H			
Connecting pipe	Liquid	mm	Ø22.2(Brazing connection)			
	Gas	mm	Ø44.5(Brazing connection)			

Model (combination unit)			TMR580ADB	TMR600ADB	TMR620ADB	TMR640ADB
Combination method			100+160+160+160	120+160+160+160	140+160+160+160	160+160+160+160
Capacity		HP	58	60	62	64
Power supply			380V ~ 50HZ ~ 3Ph			
Cooling capacity		kW	163.0	168.5	175.0	180.0
Heating capacity		kW	181.5	187.5	195.0	200.0
Input power	Cooling	kW	49.6	51.5	53.7	56.0
	Heating	kW	48.9	50.7	53.2	55.2
COP			3.71	3.70	3.67	3.62
Max. no. of connectable indoor units			60	60	60	60
Dimensions	H x W x D	mm	1620x(970+1260+1260+1260)x796	1620x(1260+1260+1260+1260)x796		
Weight		kg	208+286+286+286	245+286+286+286	286+286+286+286	
Fan		m³/h	12,000+15,000x3	15,000x4		
		Max Static Pressure	81.8			
Operation noise		dB(A)	69	70		
Operation range	Cooling		-5°C ~ 50°C			
	Heating		-20°C ~ 30°C			
Refrigerant	Type		R410A			
	Charging amount	kg	10+16+16+16	12+16+16+16	16+16+16+16	
Refrigerant oil	Type		FV-68H			
Connecting pipe	Liquid	mm	Ø22.2(Brazing connection)			
	Gas	mm	Ø44.5(Brazing connection)			

1. Design of the units conforms to GB/T 18837-2002 standards.
2. Cooling conditions: indoor temperature—27°CDB, 19°CWB, outdoor temperature—35°CDB; heating conditions: indoor temperature-20°CDB, 15°CWB, outdoor temperature-7°CDB, 6°CWB.
3. The operation noise herein is the value measured in a semi-anechoic room.
4. When pipe length exceeds 90m, the pipe diameter may change, so please strictly refer to pipe diameter illustrations in the GEN YUE technical manual.
5. For engineering design, due to the difference of operating environments, please refer to the related chapters in the user's manual attached with the unit for electrical specifications.

Extensive Indoor Unit Line-Up

GEN YUE DC INVERTER

9 Series, Total Of 62 Specifications

The GEN YUE series provides a wide range of indoor units, including the cassette unit, built-in duct unit, high wall unit, floor/ceiling unit, etc., totally 9 series and 62 specifications, perfectly meeting various inside mounting applications.

Name	Cooling capacity (kW)	2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.1	5.6	6.3	7.1	8.0	9.0	10.0	11.2	12.0	12.5	14.0	15.0	20.0	25.0	28.0
MWA-AMN 1-way cassette	NEW	•		•		•		•																
MWB-AMN 2-way cassette	NEW							•			•		•											
MWC-A/BMN 4-way cassette				•		•		•			•		•	•	•	•	•		•	•				
MWD-A/BML Slim duct unit	NEW	•	•	•	•	•	•	•	•		•	•	•											
MWD-AML Low static pressure duct unit		•		•	•	•		•			•		•											
MWD-AMS Standard static pressure duct unit													•	•	•	•		•			•			
MWD-AMH High static pressure duct unit													•	•	•	•		•			•	•	•	•
MWW-AMN High wall unit		•		•		•		•		•			•											
MWX-AMN Floor/ceiling unit								•			•		•	•			•							

4-Way Cassette (Type A/Type B)

MWC-A/BMN

4-Way Air Supply For More Even Flow

The flexible 4-way air flow design enables unblocked air supply, more even air flow and more stable room temperature. This kind of design is particularly suitable for rooms of a square shape.

Slim Profile For Elegance And Beauty

With a slim profile of just 230mm, the required minimum depth of suspended ceiling is only 285mm, ideal for mounting on low suspended ceilings.

Built-in Lift Pump For Higher Installation Freedom

The built-in lift pump with a lift of 750mm helps to save drainage pipe space, especially suitable for a suspended ceiling with low storey height, bringing more freedom to installation.

A Variety Of Motor Options For More Design Freedom

The user-friendly AC and DC motor options were designed to meet different installation requirements.

Ultimately Quiet For Comfort and Enjoyment

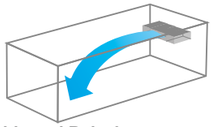
Equipped with DC motor fan and special design fans, delivering large air flow in low-noise and high-efficiency operation. Operation noise can be as low as 32dB(A).

Extensive Indoor Unit Line-Up

One-Way Cassette

MWA-AMN

One-Way Air Out With Elegant Appearance
Shutters with one-way air-out design is suitable for installation in a narrow space, which enhances indoor comfort and aesthetic.



Automatic Wide-Angle Air Swing, Comfortable and Relaxing
3 air speeds adjustment and 3-dimensional air flow, cater to users' individualized needs.

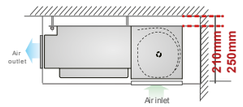
Optimized Air Flow Guide for Cleanliness and Beauty
Bright white plate for elegant and artistic appearance. Air outlet condensation can be avoided without flocking, easy to clean and prevents mold growth.

Built-in Lift Pump for Higher Installation Freedom
The built-in lift pump with a lift of 700mm helps to save drainage pipe space, especially suitable for a suspended ceiling with low storey height, bringing more freedom to installation.

Slim Duct Unit (Type A/Type B)

MWD-BML

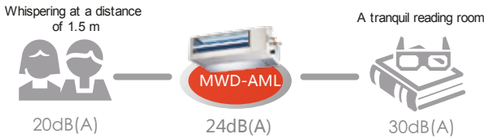
Industry-leading Slimness and Compactness
The unit features an industry-leading thickness of 210mm. The required minimum depth of suspended ceiling is only 250mm, enabling higher design freedom and making full use of the comfort of a partly suspended ceiling.



Optional Lift Pump for Higher Installation Freedom
The built-in lift pump with a lift of 700mm helps in saving drainage pipe space, especially suitable for a suspended ceiling with low storey height, bringing more freedom to installation.

A Variety of Motor Options for More Design Freedom
User-friendly AC and DC motor options were designed to meet different installation requirements.

Quiet Operation for Comfort and Enjoyment
The unit features specially designed low-noise centrifugal fan blades and a unique anti-vibration mechanism, which realize a noise level as low as 24dB(A) and bring about ultimate serenity and comfort.

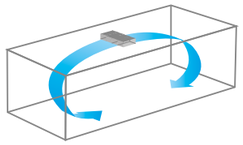


2-Way Cassette

MWB-AMN

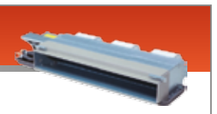
Optimized Air Flow Guide for Cleanliness and Beauty
Bright white plate for elegant and artistic appearance. Air outlet condensation can be avoided without flocking, easy to clean and prevents against mold growth.

2-way Air Out for Individualization And Comfort
The 2-way air flow design is particularly suitable for narrow spaces and help to meet the need of individualized decoration while improving comfort.



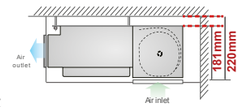
Built-in Lift Pump for Higher Installation Freedom
The built-in lift pump with a lift of 700mm helps to save drainage pipe space, especially suitable for a suspended ceiling with low storey height, bringing more freedom to installation.

Low Static Pressure Duct Unit



MWD-AML

Extremely Slim and Industry-leading
The unit features an industry-leading thickness of 181mm. The required minimum depth of suspended ceiling is only 220mm, enabling higher design freedom and making full use of the comfort of a partly suspended ceiling.

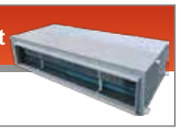


Optional Lift Pump for Higher Installation Freedom
The optional lift pump with a lift of 700mm helps to save drainage pipe space, especially suitable for a suspended ceiling with low storey height, bringing more freedom toinstallation.

Quiet Operation for Comfort and Enjoyment
The unit features specially designed low-noise centrifugal fan blades and a unique anti-vibration mechanism, which realize a noise level as low as 29dB(A) and bring about ultimate serenity and comfort.

Extensive Indoor Unit Line-Up

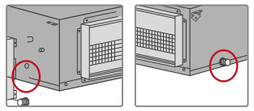
Standard Static Pressure Duct Unit



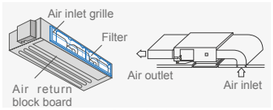
MWD-AMS

Multiple Quiet Technologies, Energy-saving and Comfortable
High-efficiency low-noise motors and low-vibration fan volutes, a fan impeller design originating from aerotechnics and multiple muting technologies, together make the MWD duct units superbly energy-saving and comfortable.

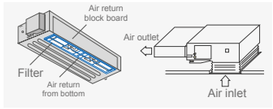
Multiple Drainage Methods and More Convenient Installation
The unit has condense pipe outlet holes on both sides, so pipe connection can be flexibly made according to actual conditions, greatly facilitating installation.
If needed, an optional lift pump with a lift of 700mm is available.



Multi-function air supply, More Comfort and Satisfaction
The unit featuring a built-in air return box enables air return and bottom air return mounting, thus increasing design freedom.



Air inlet grille



Air return from bottom

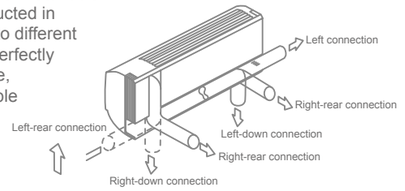
High Wall Unit

MWW-AMN

Multi-function Air Supply, More Comfort and Satisfaction

- The auto air swing function can supply air at the optimal angle, intelligently adjusted according to the operation mode (cooling or heating).
- The air supply angle can reach a maximum of 65°, effectively avoiding dead corner problems troubling conventional high wall indoor units, thus achieving more even air supply in a wider range and making the air conditioning space more comfortable.

Flexible Pipe Connection and Installation
Pipe connection can be conducted in 3 different directions to cater to different styles of interior decoration, perfectly concealing the refrigerant pipe, making installation more flexible and more eye-pleasing.

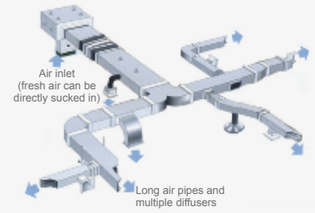


High Static Pressure Duct Unit

MWD-AMH

High Static Pressure Design and Wide Applications
With a large air flow and high static pressure design, the unit's external static pressure can reach up to 120Pa. As the unit can connect various kinds of long air pipes and diffusers, it is especially suitable for factories, canteens and other large spaces.

Air pipe connection example



Applicable air vent example

Slim Design, Space Saving
With a profile of just 370mm, the unit is slimmer than conventional high static pressure duct units, saving even more installation space. Besides, an optional lift pump with a lift of 700mm is available to achieve higher installation freedom.

Floor/Ceiling Unit

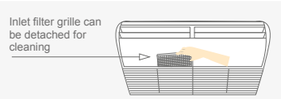
MWX-AMN

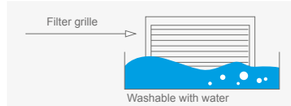
Artistic Design, Perfectly Matching With Interior Decoration
With an artistic design, the unit perfectly matches with its surroundings, even if there is no suspended ceiling.

Flexible Pipe Connection and Installation
2 different pipe connection methods meet different installation needs.

Unique Air Supply Design for Quietness and Comfort
Three dimensional air supply eliminates dead corners, helping to maintain a more stable room temperature.

Detachable Design, Convenient Cleaning and Service
The inlet filter grille can be detached, simplifying cleaning and service and extending service life.



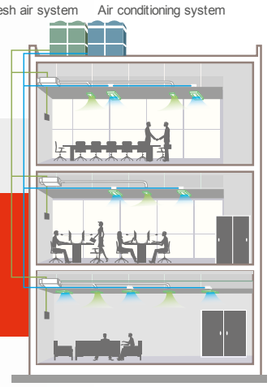


Extensive Indoor Unit Line-Up

GEN YUE DC INVERTER

Fresh Air System MWF

MWF140AMN : 1,400m³/h
MWF224AMN : 2,000m³/h
MWF280AMN : 2,800m³/h



With the rapid economic development, large office buildings and shopping malls have become the symbol of an affluent and prosperous city. In these large and highly dense enclosures, indraught of fresh air from outside is essential to ensuring the health and well being of the occupants.

The GEN YUE fresh air system is built on Trane's traditional emphasis on quality to deliver comfortable, healthy and sustainable living and working environments together with the GEN YUE multi-split air conditioning system.

- The GEN YUE fresh air system has its own outdoor unit, which can effectively reduce capacity and load of the air conditioning outdoor unit. Especially in transition seasons, the system not only can meet need of fresh air, but also plays a role in room temperature adjustment.
- Its outdoor unit is of the same kind with that of the GEN YUE air conditioning system, which makes centralized control and coordinated control more convenient.
- The indoor unit provides 3 fresh air processing units with different levels of air flow for options, 1,400m³/h, 2,000m³/h and 2,800m³/h, meeting fresh air needs of different-sized spaces. Besides, combinations of units can be used for large spaces.
- Adoption of the DC inverter technology and environment-friendly refrigerant R410A helps to bring about a greener fresh air system.

Design description

GEN YUE fresh air system can only use a single-module outdoor unit to which modular combination is not applicable.

GEN YUE fresh air system is an independent system, of which the fresh air processing unit can not share the outdoor unit with other air conditioning indoor units.

The total cooling capacity of the indoor fresh air processing units connected in the GEN YUE fresh air system must be within the range of 50% to 130% of the outdoor unit's capacity. For detailed configuration, refer to the GEN YUE technical manual.

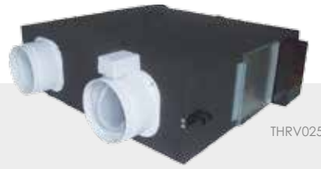
Parameters Table

INDOOR UNIT MODEL			MWF140AMN	MWF224AMN	MWF280AMN
Cooling capacity		kW	14.0	22.4	28.0
Heating capacity		kW	9.0	16.0	20.0
Power supply			220V~50Hz ~ 1Ph		
Rated power		kW	0.45	1.20	1.20
Air flow		CMH	1,400	2,000	2,800
Static pressure		Pa	196	200	220
Noise value		dB (A)	42-48	48	45-52
L x W x H	Body	mm	1190X620X370	1465X811X448	1465X811X448
Weight	Body	kg	47	102	102
Connecting pipe	Liquid	mm	Ø9.5	Ø12.7	
	Gas	mm	Ø15.9	Ø22.2	
	Drain	mm	DN20	DN30	
Controller			Wired (standard)/wireless (optional)		

Note:

1. Cooling capacity test conditions: outside temperature 33°CDB/28°CWB, 68%RH; heating capacity test conditions: outside temperature 0°CDB/-2.9°CWB, 50%RH, frost free.
2. The operation noise values herein are measured in a semi-anechoic room. In actual installation conditions, the actual noise levels are usually higher than values recorded herein due to the influence of ambient noise and reflection effect.
3. Should there be any inconsistency involving parameters, those on the nameplate coming with the unit shall prevail. For reasons like system optimization, upgrades, etc., the data herein is subject to change without prior notice.

Total Heat Exchanger

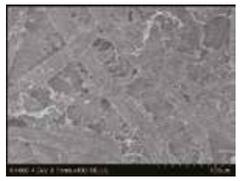


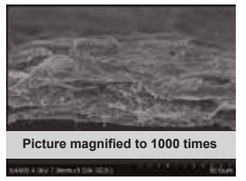
THRV025~200AMNENA

Applications: Multi-Use Office Buildings, Hotels, Meeting Rooms, High-End Residences.

High Heat Exchanging Efficiency, Comfortable and Energy Saving

- A specially designed wave-shaped inner framework effectively raises heat exchanging efficiency by 10%.
- It uses the 5th-generation high-efficiency heat exchange heterogeneous membrane developed by Trane together with Ningbo Institute of Industrial Technology, whose exchanging efficiency is 17% higher than the conventional heat exchange membrane.





High Heat Exchanging Efficiency, Comfortable and Energy Saving

The foam air duct structure is optimized to enable more smooth air flow and higher static pressure. The oblique twisted impeller and forward-tilting centrifugal fan have gone through rigorous static and dynamic balance tests, helping to lower the wholeunit's operation noise.

High Heat Exchanging Efficiency, Comfortable and Energy Saving

When outside and inside temperatures are very close during spring or autumn, the system will switch to a bypass function, which can make outside fresh air directly flow into the room after high-efficiency filtering instead of going through the heat recovery device. This can effectively extend the unit's service life, save energy and improve ventilation effect.

It uses natural cellulose fibrous material as the substrate—boasting excellent traverse and longitudinal strength required by a total heat exchange membrane, and besides, natural cellulose is not only of certain moisture retention and permeation capabilities, but also environment-friendly and biodegradable.

Parameters Table

Model		THRV-	025AMNENA	050AMNENA	100AMNENA	150AMNENA	200AMNENA
Power supply			220V-50Hz ~ 1Ph				
Heat exchanging efficiency	Cooling	%	60	60	60	60	60
	Heating		65	65	65	65	65
Enthalpy exchanging efficiency	Cooling	%	55	55	52	55	55
	Heating		65	65	62	65	65
Operating current	Heat exchange mode	A	0.67	1.72	4.65	4.32	5.73
	Bypass mode		-	-	-	-	-
Input power	Heat exchange mode	kW	2X0.074	2X0.189	2X0.511	2X0.475	2X0.63
	Bypass mode		-	-	-	-	-
Dimensions	Length	mm	745	825	1115	1500	1550
	width		600	905	1135	1200	1400
	Height		270	270	390	540	540
Air pipe size		mm	Φ144	Φ194	Φ242	320×300	320×300
Fan	type		Centrifugal fan				
	Motor output	W	2X40	2X180	2X500	2X375	2X550
	Air flow	m³/h	250	500	1000	1500	2000
	External static pressure	Pa	75	100	120	150	200
Operation noise		dB(A)	41	43	47	54	57
Weight		kg	30	40	79	151	172
Operation mode			Heat exchange mode				

Note:

1. The operation noise values herein are measured in a semi-anechoic room. In actual installation conditions, the actual noise levels are usually higher than values recorded herein due to the influence of ambient noise and reflection effect.
2. Should there be any inconsistency involving parameters, those on the nameplate coming with the unit shall prevail. For reasons like system optimization, upgrades, etc., the data herein is subject to change without prior notice.

Indoor Unit Parameters Table

GENYUE DC INVERTER

MWA-AMN 1-Way Cassette

Unit model MWA-AMN			022	028	036	045
Cooling capacity		kW	2.2	2.8	3.6	4.5
Heating capacity		kW	2.5	3.2	4.0	5.0
Rated input power	Cooling	W	40			50
	Heating	W	40			50
Power Supply			220V~50Hz ~ 1Ph			
Air flow	High	m³/h	520			610
	Medium	m³/h	470			550
	Low	m³/h	400			500
Refrigerant type			R410A			
Unit dimensions	L x W x H	mm	870x460x250			870x460x290
Weight		kg	27.6 (including panel)			29.6 (including panel)
Panel dimensions	L x W x H	mm	1070x520x50			
Noise value	High/Medium/Low	dB(A)	36/34/32			41/38/36
Connecting pipe	Liquid	mm	Ø6.35			
	Gas	mm	Ø9.52			Ø12.7
	Drain	mm	DN25			
Controller			Wireless (standard)/Wired (optional)			

MWB-AMN 2-Way Cassette

Unit model MWB-AMN			045	056	071
Cooling capacity		kW	4.5	5.6	7.1
Heating capacity		kW	5.0	6.3	8.0
Rated input power	Cooling	W	70		100
	Heating	W	70		100
Power Supply			220V~50Hz ~ 1Ph		
Air flow	High	m³/h	800		1120
	Medium	m³/h	670		950
	Low	m³/h	600		850
Refrigerant type			R410A		
Unit dimensions	L x W x H	mm	960x520x306		1200x520x306
Weight		kg	39.5 (including panel)		47.5 (including panel)
Panel dimensions	L x W x H	mm	1203x630x50		1443x630x50
Noise value	High/Medium/Low	dB(A)	42/39/36		46/43/40
Connecting pipe	Liquid	mm	Ø6.4		Ø9.5
	Gas	mm	Ø12.7		Ø15.9
	Drain	mm	DN25		
Controller			Wireless (standard)/Wired (optional)		

MWD-AML Slim Duct Unit (Type A)

Unit model MWD-AMLN-B			022	025	028	032	036	040	045	050	056	063	071
Cooling capacity		kW	2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1
Heating capacity		kW	2.5	2.8	3.2	3.5	4.0	4.5	5.0	5.6	6.3	7.1	8.0
Auxiliary electrical heating capacity (optional)		kW	0.75	0.75	0.75	0.75	0.75	0.75	0.75	1.2	1.2	1.5	1.5
Rated input power	Cooling	W	50	50	50	70	70	70	70	100	100	110	110
	Heating	W	50	50	50	70	70	70	70	100	100	110	110
Auxiliary electrical heating power		kW	0.75	0.75	0.75	0.75	0.75	0.75	0.75	1.2	1.2	1.5	1.5
Power Supply			220V~50Hz~ 1Ph										
Air flow	High	m³/h	450			550		620	620	800		1000	
	Medium	m³/h	300			400		480	480	600		800	
	Low	m³/h	200			300		350	350	450		600	
Static Pressure		Pa	0(default)/20(adjustable)										
Refrigerant type			R410A										
Unit dimensions	L x W x H	mm	814x476x210							1010x476x210		1214x476x210	
Weight (standard type/auxiliary electrical heating type)		kg	16/16.5							21.5/22		26/26.5	
Noise value	High/Medium/Low	dB(A)	29/27/24		32/29/25		36/33/30		38/35/32	38/33/28		39/34/30	
Connecting pipe	Liquid	mm	Ø6.4		Ø6.4							Ø9.5	
	Gas	mm	Ø9.5		Ø12.7							Ø15.9	
	Drain	mm	DN25										
Controller			Wired (standard)/Wireless (optional)										

1. Design of the units conforms to GB/T 18837-2002 standards.
2. The above indoor units' capacity test conditions: cooling 35°C DB/24°C WB (outdoor), 27°C DB/19°C WB (indoor); heating 7°C DB/6°C WB (outdoor), 20°C DB/15°C WB (indoor); equivalent length of refrigerant pipe: 5m; height dif ference between indoor and outdoor units: 0m.
3. Should there be any inconsistency involving parameters, those on the nameplate coming with the unit shall prevail. For reasons like system optimization, upgrades, etc., the data herein is subject to change without prior notice.
4. In the product names, "type A" refers to AC motor models, while "type B" refers to DC motor models.

MWD-BML Slim Duct Unit (Type B)

Unit model MWD-BML			022	025	028	032	036	040	045	050	056	063	071
Cooling capacity		kW	2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1
Heating capacity		kW	2.5	2.8	3.2	3.5	4.0	4.5	5.0	5.6	6.3	7.1	8.0
Auxiliary electrical heating capacity (optional)		kW	0.75	0.75	0.75	0.75	0.75	0.75	0.75	1.2	1.2	1.5	1.5
Rated input power	Cooling	W	20			30		35		45		55	
	Heating	W	20			30		35		45		55	
Auxiliary electrical heating power		kW	0.75	0.75	0.75	0.75	0.75	0.75	0.75	1.2	1.2	1.5	1.5
Power Supply			220V~50Hz~1Ph										
Air flow	High	m³/h	450			550		620	620	800		1000	
	Medium	m³/h	300			400		480	480	600		800	
	Low	m³/h	200			300		350	350	450		600	
Static pressure		Pa	0 (default)/20(adjustable)										
Refrigerant type			R410A										
Unit dimensions	L x W x H	mm	814x476x210							1010x476x210		1214x476x210	
Weight (standard type/auxiliary electrical heating type)		kg	16.5/17			17/17.5				20.5/21		25.5/26	
Noise value	High/Medium/Low	dB(A)	29/27/24		32/29/25		36/33/30		37/35/32	38/33/28		39/34/30	
Connecting pipe	Liquid	mm	Ø6.4		Ø6.4							Ø9.5	
	Gas	mm	Ø9.5		Ø12.7							Ø15.9	
	Drain	mm	DN25										
Controller			Wired (standard)/Wireless (optional)										

MWC-AMN 4-Way Cassette Unit (Type A)

Unit model MWC-AMN			028	036	045	056	071	080	090	100	112	125	140
Cooling capacity		kW	2.8	3.6	4.5	5.6	7.1	8.0	9.0	10.0	11.2	12.5	14.0
Heating capacity		kW	3.2	4.0	5.0	6.3	8.0	9.0	10.0	11.0	12.5	14.0	15.0
Auxiliary electrical heating capacity (optional)		kW	1.5				2.0		3.0				
Rated input power	Cooling	W	43	54			93		160				
	Heating	W	43	54			93		160				
Auxiliary electrical heating power		kW	1.5				2.0		3.0				
Power Supply			220V~50Hz~1Ph						220V~50Hz~1Ph/380V~50HZ~3Ph				
Air flow	High	m³/h	650	810			1050	1200	1550			1600	
	Medium	m³/h	550	700			950	1100	1250			1450	
	Low	m³/h	450	550			800	900	1050			1300	
Refrigerant type			R410A										
Unit dimensions	L x W x H	mm	900x833x232						900x833x286				
Weight (standard type/auxiliary electrical heating type)		kg	22/23	24/25					28.5/30				
Panel dimensions	L x W x H	mm	950x950x50										
Noise value	High/Medium/Low	dB(A)	36/34/32	39/37/35			43/41/39	48/45/43	46/43/41			49/46/43	
Connecting pipe	Liquid	mm	Ø6.4				Ø9.5						
	Gas	mm	Ø9.5	Ø12.7			Ø15.9						
	Drain	mm	DN25										
Controller			Wireless (standard)/Wired (optional)										

MWC-BMN 4-Way Cassette Unit (Type B)

Unit model MWC-BMN			028	036	045	056	071	080	090	100	112	125	140
Cooling capacity		kW	2.8	3.6	4.5	5.6	7.1	8.0	9.0	10.0	11.2	12.5	14.0
Heating capacity		kW	3.2	4.0	5.0	6.3	8.0	9.0	10.0	11.0	12.5	14.0	15.0
Auxiliary electrical heating capacity (optional)		kW	1.5				2.0		3.0				
Rated input power	Cooling	W	20	30			70		100				
	Heating	W	20	30			70		100				
Auxiliary electrical heating power		kW	1.5				2.0		3.0				
Power Supply			220V~50Hz~ 1Ph						220V~50Hz~1Ph/380V~50Hz~3Ph				
Air flow	High	m³/h	650	810			1050	1200	1550			1600	
	Medium	m³/h	550	700			950	1100	1250			1450	
	Low	m³/h	450	550			800	900	1050			1300	
Refrigerant type			R410A										
Unit dimensions	L x W x H	mm	900x833x232						900x833x286				
Weight (standard type/auxiliary electrical heating type)		kg	20.5/21.5	22/23			22.5/23.5		27/28.5				
Panel dimensions	L x W x H	mm	950x950x50										
Noise value	High/Medium/Low	dB(A)	36/34/32	39/37/35			43/41/39	48/45/43	46/43/41			49/46/43	
Connecting pipe	Liquid	mm	Ø6.4				Ø9.5						
	Gas	mm	Ø9.52	Ø2.7			Ø15.9						
	Drain	mm	DN25										
Controller			Wireless (standard)/Wired (optional)										

1. Design of the units conforms to GB/T 18837-2002 standards.
2. The above indoor units' capacity test conditions: cooling 35°C DB/24°C WB (outdoor), 27°C DB/19°C WB (indoor); heating 7°C DB/6°C WB (outdoor), 20°C DB/15°C WB (indoor); equivalent length of refrigerant pipe: 5m; height dif ference between indoor and outdoor units: 0m.
3. Should there be any inconsistency involving parameters, those on the nameplate coming with the unit shall prevail. For reasons like system optimization, upgrades, etc., the data herein is subject to change without prior notice.
4. In the product names, "type A" refers to AC motor models, while "type B" refers to DC motor models.

Indoor Unit Parameters Table

GENYUE DC INVERTER

MWD-AML Low Static Pressure Duct Unit

Unit model MWD-AMLN-A			022	028	032	036	045	056	071
Cooling capacity		kW	2.2	2.8	3.2	3.6	4.5	5.6	7.1
Heating capacity		kW	2.5	3.2	3.5	4.0	5.0	6.3	7.8
Auxiliary electrical heating capacity (optional)		kW	0.85				1.5	1.8	
Rated input power	Cooling	W	45		65		75	105	
	Heating	W	45		65		75	105	
Auxiliary electrical heating power		kW	0.85				1.5	1.8	
Power Supply			220V~50Hz~1Ph						
Air flow	High	m³/h	450		550		780	1100	
	Medium	m³/h	350		450		680	950	
	Low	m³/h	250		350		580	800	
Static pressure		Pa	20						
Refrigerant type			R410A						
Unit Dimensions	L x W x H	mm	925x510x181				1205x510x181	1530x510x181	
Weight (standard type/auxiliary electrical heating type)		kg	17/18		17.5/18.5		21/22	26/27	
Noise value	High/Medium/Low	dB(A)	36/33/29		36/33/29		40/36/32	42/39/35	
Connecting pipe	Liquid	mm	Ø6.4						Ø9.5
	Gas	mm	Ø9.5		Ø12.7				Ø15.9
	Drain	mm	DN25						
Controller			Wired (standard)/Wireless (optional)						

MWD-AMS Standard Static Pressure Duct Unit

Unit model MWD-ANS			071	080	090	100	120	150
Cooling capacity		kW	7.1	8.0	9.0	10.0	12.0	15.0
Heating capacity		kW	8.0	9.0	10.0	11.0	13.0	17.0
Auxiliary electrical heating capacity (optional)		kW	2.1					
Rated input power	Cooling	W	180		340			
	Heating	W	180		340			
Auxiliary electrical heating power		kW	2.1					
Power Supply			220V~50Hz~1Ph					
Indoor airflow	High	m³/h	1220		1850	2000		2000
	Medium	m³/h	1050		1600	1750		1800
	Low	m³/h	900		1400	1500		1600
Static pressure		Pa	30					
Refrigerant type			R410A					
Unit Dimensions	L x W x H	mm	1209 x 680 x 260		1445 x 680 x 260			
Weight (standard type/auxiliary electrical heating type)		kg	33/34		46/47			
Noise value	High/Medium/Low	dB(A)	41/38/36		43/40/38		44/42/40	
Connecting pipe	Liquid	mm	Ø9.5					
	Gas	mm	Ø15.9					
	Drain	mm	DN25					
Controller			Wired (standard)/Wireless (optional)					

MWD-AMH High Static Pressure Duct Unit

Unit model MWD-AMH			071	080	090	100	120	150	200	250	280
Cooling capacity		kW	7.1	8.0	9.0	10.0	12.0	15.0	20.0	25.0	28.0
Heating capacity		kW	7.8	8.8	10.0	11.0	13.0	17.0	22.0	27.5	30.8
Auxiliary electrical heating capacity (optional)		kW	2.1			3.0					
Rated input power	Cooling	W	340			450			1200		
	Heating	W	340			450			1200		
Auxiliary electrical heating power		kW	2.1			3.0					
Power Supply			220V~50Hz~1Ph			220V~50Hz~1Ph/ 380V~50Hz~3Ph			220V~50Hz~1Ph		
Indoor airflow	High	m³/h	1500			2300			4400		
	Medium	m³/h	1300			2100			4000		
	Low	m³/h	1100			1900			3600		
Static pressure		Pa	120								
Refrigerant type			R410A								
Unit Dimensions	L x W x H	mm	1445 x 680 x 260			1190 x 620 x 370			1465 x 811 x 448		
Weight (standard type/auxiliary electrical heating type)		kg	46/47			47/49			102/-		
Noise value	High/Medium/Low	dB(A)	43/42/40			52/48/44			53/49/45	54/50/45	55/50/45
Connecting pipe	Liquid	mm	Ø9.5						Ø12.7		
	Gas	mm	Ø15.9						Ø22.2		
	Drain	mm	DN25						DN30		
Controller			Wired (standard)/Wireless (optional)								

1. Design of the units conforms to GB/T 18837-2002 standard
2. The above indoor units' capacity test conditions: cooling 35°C DB/24°C WB (outdoor), 27°C DB/19°C WB (indoor); heating 7°C DB/6°C WB (outdoor), 20°C DB/15°C WB (indoor) equivalent length of refrigerant pipe: 5m; height difference between indoor and outdoor units: 0m.
3. Should there be any inconsistency involving parameters, those on the nameplate coming with the unit shall prevail. For reasons like system optimization, upgrades, etc., the data herein is subject to change without prior notice.

MWW-AMN High Wall Unit

Unit model MWW-AMN			022	028	036	045	051	071
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.1	7.1
Heating capacity		kW	2.5	3.2	4.0	5.0	7.1	8.0
Rated input power	Cooling	W	55		58	60		
	Heating	W	55		58	60		
Auxiliary electrical heating power			220V~50Hz~1Ph					
Air flow	High	m³/h	540		600	780	1000	
	Medium	m³/h	440		500	650	800	
	Low	m³/h	340		400	550	600	
Refrigerant type			R410A					
Unit Dimensions	L x W x H	mm	850 x 400 x 235				1080 x 304 x 221	
Weight		kg	12				16	
Wireless (standard) / wired (optional)	High/Medium/Low	dB(A)	36/34/32			42/39/37	48/46/44	
Connecting pipe	Liquid	mm	Ø6.4					Ø9.5
	Gas	mm	Ø9.5		Ø12.7			Ø15.9
	Drain	mm	DN20					
Controller			Wireless (standard)/Wired (optional)					

MWX-AMN Floor/Ceiling Unit

Unit model MWX-AMN			045	056	071	080	112
Cooling capacity		kW	4.5	5.6	7.1	8.0	11.2
Heating capacity		kW	5.0	6.3	8.0	8.8	12.5
Rated input power	Cooling	W	60		150		260
	Heating	W	60		150		260
Auxiliary electrical heating power			220V~50Hz~1Ph				
Air flow	High	m³/h	950		1300		2300
	Medium	m³/h	850		1150		2100
	Low	m³/h	750		1100		1900
Refrigerant type			R410A				
Unit Dimensions	L x W x H	mm	1245 x 680 x 240				1670 x 680 x 240
Weight		kg	36				51
Wireless (standard) / wired (optional)	High/Medium/Low	dB(A)	46/42/37		48/44/39		52/49/45
Connecting pipe	Liquid	mm	Ø6.4		Ø9.5		
	Gas	mm	Ø12.7		Ø15.9		
	Drain	mm	DN20				
Controller			Wireless (standard)/Wired (optional)				

1. Design of the units conforms to GB/T 18837-2002 standard
2. The above indoor units' capacity test conditions: cooling 35°C DB/24°C WB (outdoor), 27°C DB/19°C WB (indoor); heating 7°C DB/6°C WB (outdoor), 20°C DB/15°C WB (indoor) equivalent length of refrigerant pipe: 5m; height difference between indoor and outdoor units: 0m.
3. Should there be any inconsistency involving parameters, those on the nameplate coming with the unit shall prevail. For reasons like system optimization, upgrades, etc., the data herein is subject to change without prior notice.

GENYUE DC INVERTER

Complete Sales And Service System

Pre-Sales

Trane design professionals are at hand to provide detailed air conditioning solutions

Before installation, Trane design professionals will fully evaluate design parameters including the outdoor climate, indoor load, fresh air requirement, etc., as well as system pipe length, outdoor unit heat dissipation and other comprehensive conditions, to come up with solution which not only is more suitable, but also can drive the unit's performance to the uttermost.

In-Sales

Trane professional technicians are assigned to startup commissioning, bringing a reliable start

During installation, in order to ensure the unit's reliability in the future, Trane will designate dedicated personnel or authorized personnel from a special primary service center to conduct startup commissioning.

After-Sales

Toll-free service hot-line is available all year long (365 days) to customers all across the country

In the customer service center, dedicated technicians are available 365 days a year for receiving customers' repair requirements, consultancy and complaints, ensuring fast and effective responses to customer needs.

1800-102-9986

Green Taicang Plant

As a leading global HVAC products, systems and services provider, Trane is committed to environmental protection and promotion of green building development. Being Trane's flagship factory in the Asia Pacific region, the Taicang plant is an environmentally friendly and comprehensive integrated facility providing customers with high quality products and services. Besides the production assembly lines, the modern world-class facility encompasses an R&D center, an advanced compressor assembly plant, an 800m² showroom and a training center, as well as a dozen laboratory and production testing loops. It is also LEED™ (Leadership in Energy and Environmental Design) gold certified from the United States Green Building Council.

Excellent Service

Trane Offerings Are More Than You Ever Expected

- **Extensive Service**

Service and maintenance agreements are tailored to your need, which means you pay only for what you need.

Certified service networks through dealers trained and monitored by Trane.